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LL      IIIIII  BBBB8888  IIIIII  NN      NN  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LL      IIIIII  88888888  IIIIII  NN      NN  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NNNN     NN  II      TT      AA      AA
LL      II      88888888  II      NN      NN  II      TT      AA      AA
LL      II      88888888  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LL      II      BB      BB  II      NN      NN  II      TT      AA      AA
LLLLLLLLLLLL  IIIIII  88888888  IIIIII  NN      NN  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LLLLLLLLLLLL  IIIIII  88888888  IIIIII  NN      NN  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA

LL      IIIIII  SSSSSSSS  IIIIII  SS      SS  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LL      IIIIII  SSSSSSSS  IIIIII  SS      SS  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LL      II      SS      SS  II      NN      NN  II      TT      AA      AA
LL      II      SS      SS  II      NN      NN  II      TT      AA      AA
LL      II      SS      SS  II      NNNN     NN  II      TT      AA      AA
LL      II      SSSSSS  II      NN      NN  II      TT      AA      AA
LL      II      SSSSSS  II      NN      NN  II      TT      AA      AA
LL      II      SS      SS  II      NN      NN  II      TT      AA      AA
LL      II      SS      SS  II      NN      NN  II      TT      AA      AA
LLLLLLLLLLLL  IIIIII  SSSSSSSS  IIIIII  SS      SS  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA
LLLLLLLLLLLL  IIIIII  SSSSSSSS  IIIIII  SS      SS  IIIIII  TTTTTTTTTT  IIIIII  AAAAAA

```


(2) 57
(3) 78
(4) 124

HISTORY ; Detailed Current Edit History
DECLARATIONS
LIB\$INITIALIZE - Library initialization procedure dispatcher


```
0000 1      .TITLE  LIB$INITIALIZE      ; Library initialization dispatcher
0000 2      .IDENT  /1-004/              ; File: LIBINITIA.MAR Edit: SBL1004
0000 3
0000 4
0000 5      *****
0000 6      *
0000 7      *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0000 8      *  DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0000 9      *  ALL RIGHTS RESERVED.
0000 10     *
0000 11     *  THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0000 12     *  ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0000 13     *  INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0000 14     *  COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0000 15     *  OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0000 16     *  TRANSFERRED.
0000 17     *
0000 18     *  THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0000 19     *  AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0000 20     *  CORPORATION.
0000 21     *
0000 22     *  DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0000 23     *  SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24     *
0000 25     *
0000 26     *****
0000 27
0000 28     ++
0000 29     FACILITY: RUN-TIME UTILITY PROCEDURE LIBRARY
0000 30
0000 31     ENVIRONMENT: User mode - not re-entrant. Called only once
0000 32                   per image activation.
0000 33
0000 34
0000 35     ABSTRACT:
0000 36
0000 37         LIB$INITIALIZE is a software architecture procedure
0000 38         which permits any library or user modular procedure to specify an initializa
0000 39         to be called before the main program is called.
0000 40         The initialization procedure can perform any once per-image
0000 41         activation initialization which cannot be performed by the usual
0000 42         compile-time and link-time static data initialization.
0000 43
0000 44     --
0000 45
0000 46     VERSION: 0
0000 47
0000 48     HISTORY:
0000 49
0000 50     AUTHOR:
0000 51         Thomas N. Hastings, 6-Aug-77: Version 0
0000 52
0000 53     MODIFIED BY:
0000 54
0000 55
```

LIB\$INITIALIZE
1-004

E 16
; Library initialization dispatcher 16-SEP-1984 00:11:03 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:08:09 [LIBRTL.SRC]LIBINITIA.MAR;1 Page 2
(2)

```
0000 57      .SBTTL HISTORY      ; Detailed Current Edit History
0000 58
0000 59
0000 60 ; Edit History for Version 0
0000 61 ;
0000 62
0000 63 ; 0-01 - initial version TNH 12-SEP-77
0000 64 ; 0-4  - Declare PSECT LIB$CODE SHR. TNH 19-Dec-77
0000 65 ; 00-05 - Return after main prog., using OWN storage. TNH 6-Jan-78.
0000 66 ; 00-08 - Change PSECT to LIB$CODE NOSHR. JMT 25-Jan-78
0000 67 ; 00-09 - Declare PSECT GBL. TNH 10-Jun-78
0000 68 ; 00-10 - .PSECT LIB$DATA NOPIC. TNH 28-June-78
0000 69 ; 1-001 - Update version number and copyright notice. JBS 16-NOV-78
0000 70 ; 1-002 - Remove $SFDEF macro - not needed. JBS 16-DEC-78
0000 71 ; 1-003 - Add "" to certain PSECT directives. (Don't change those
0000 72 ;             documented in release 1.) JBS 21-DEC-78
0000 73 ; 1-004 - Zero the "Environment Pointer" (R1) before calling
0000 74 ;             initialization routines. This insures that routines
0000 75 ;             written in PASCAL, PL/I, etc. will work correctly.
0000 76 ;             SBL 7-April-1980
```



```
0000 78      .SBTTL  DECLARATIONS
0000 79
0000 80  :
0000 81  : INCLUDE FILES:
0000 82  :
0000 83  :
0000 84  : EXTERNAL SYMBOLS:
0000 85  :
0000 86      .DSABL  GBL                      ; Force .EXTRN declarations for externals
0000 87  :
0000 88  : MACROS:
0000 89  :
0000 90  :
0000 91  :
0000 92  : PSECT DECLARATIONS:
0000 93  :
00000000 94      .PSECT  LIB$INITIALIZDZ NOPIC,USR,CON,REL,GBL,NOSHR,NOEXE,RD,NOWRT,LONG
0000 95  INIT_TABLE_BEG:                      ; First entry in table
00000000 96      .PSECT  LIB$INITIALIZD_ NOPIC,USR,CON,REL,GBL,NOSHR,NOEXE,RD,NOWRT,LONG
0000 97      ; Contribution from OTS$STARTUP
00000000 98      .PSECT  LIB$INITIALIZE  NOPIC,USR,CON,REL,GBL,NOSHR,NOEXE,RD,NOWRT,LONG
0000 99      ; Contributions from rest of library and use
00000000 100     .PSECT  LIB$INITIALIZES NOPIC,USR,CON,REL,GBL,NOSHR,NOEXE,RD,NOWRT,LONG
0000 101  INIT_TABLE_END:
00000000 102     .LONG  0                      ; End of startup list
0004 103
0004 104                      ; The code for this module
0004 105
0004 106  : EQUATED SYMBOLS:
0004 107  :
0004 108  :
0004 109  : OWN STORAGE:
0004 110  :
0004 111  :
00000000 112     .PSECT  _LIB$DATA          PIC,USR,CON,REL,LCL,NOSHR,NOEXE,RD,WRT
0000 113
0000 114  DISP_PTR:                          ; OWN variable containing
00000004 115     .BLKL  1                      ; pointer to initialization dispatch table
0004 116  SAV_START_ADR:                    ; OWN variable to save original
00000008 117     .BLKL  1                      ; value of START_ADR_ADR arg list entry
0000000C 118  SAV_AP: .BLKL  1              ; saved value of AP when called
000C 119                      ; needed to find original arg list
000C 120                      ; on co-routine call back.
000C 121
00000000 122     .PSECT  _LIB$CODE_NOSHR PIC,USR,CON,REL,LCL,SHR,EXE,RD,NOWRT
```

```
0000 124      .SBTTL LIB$INITIALIZE - Library initialization procedure dispatcher
0000 125
0000 126      ;++
0000 127      ; FUNCTIONAL DESCRIPTION:
0000 128
0000 129      LIB$INITIALIZE is a library procedure for initializing
0000 130      library and user procedures at run-time which cannot
0000 131      be done statically at compile-time or link-time.
0000 132      LIB$INITIALIZE is called before the main program
0000 133      if the GLOBAL symbol LIB$INITIALIZE is defined. User procedures
0000 134      and library procedures need only declare LIB$INITIALIZE
0000 135      as an EXTERNAL (the compiler generates EXTERNAL OTSS$LINKAGE
0000 136      which generates the EXTERNAL LIB$INITIALIZE).
0000 137      LIB$INITIALIZE calls every entrypoint contributed to
0000 138      PSECT LIB$INITIALIZE.
0000 139      Note: this procedure is not re-entrant. It can only be called
0000 140      once per image activation as currently coded. If multiple
0000 141      main programs exist in an image, all but the first should be called
0000 142      directly, rather than calling through the image startup list
0000 143      setup by the linker.
0000 144
0000 145      CALLING SEQUENCE:
0000 146
0000 147      Status.wlc.v = LIB$INITIALIZE (start_adr_adr.ma.r, cli_co_rout.flc.r, ...)
0000 148
0000 149      INPUT PARAMETERS:
0000 150
0000 151      00000004 START_ADR_ADR = 4 ; Adr. of the entry
0000 152 ; in the image startup vector
0000 153 ; which is used to perform the call.
0000 154
0000 155      IMPLICIT INPUTS:
0000 156      NONE
0000 157
0000 158      OUTPUT PARAMETERS:
0000 159      NONE
0000 160
0000 161      IMPLICIT OUTPUTS:
0000 162      NONE
0000 163
0000 164      COMPLETION CODES:
0000 165
0000 166      The completion code returned from the main program.
0000 167
0000 168      SIDE EFFECTS:
0000 169
0000 170      Violates VAX-11 Procedure Calling standard by modifying arg list entry START
0000 171      Increments it by 4 to point to main program starting address.
0000 172      This violation is acceptable, since LIB$INITIALIZE only called
0000 173      by CLI and debugger.
0000 174
0000 175      --
0000 176
0000 177
0000 178
```


LIB\$INITIALIZE
1-004

H 16
; Library initialization dispatcher
LIB\$INITIALIZE - Library initialization

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6-SEP-1984 11:08:09 [LIBRTL.SRC]LIBINITIA.MAR;1

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```

4000 0000 180 .ENTRY LIB$INITIALIZE, ^M<IV> ; entry point and entry mask
      0002 181 ; enable integer overflow
      0002 182 ; save AP for co-routine restore
00000008'EF 5C D0 0002 182 MOVL AP, SAV AP
00000004'EF 04 AC D0 0009 183 MOVL START_ADR_ADR(AP), -
      0011 184 SAV_START_ADR ; save pointer to startup list in OWN
      0011 185 MOVAL B^CD ROUT, - ; storage (SAV_START_ADR)
      0016 186 ; change arg list entry in case
00000000'EF 00000000'EF DE 0016 186 MOVL START_ADR_ADR(AP) ; an initialization procedure is called.
      0021 187 MOVAL INIT_TABLE_BEG, - ; initialize OWN storage (DISP_PTR)
      0021 188 ; to first address of user/library
      0021 189
      0021 190 ;+
      0021 191 ; Loop to scan table of user and library initialization procedure
      0021 192 ; starting addresses in PSECT LIB$INITIALIZDZ, LIB$INITIALIZD_,
      0021 193 ; LIB$INITIALIZE, and LIB$INITIALIZES
      0021 194 ;--
      0021 195
50 00000000'FF D0 0021 196 LOOP: MOVL @DISP_PTR, R0 ; R0 = next user/library initialization
      0028 197 ; procedure address
      0028 198 BEQL CALL_MAIN ; zero means end of list
      002A 199 CLRL R1 ; Clear environment pointer
      002C 200 CALLG (AP), (R0) ; call next user/library init proc.
      002F 201 TSTL @DISP_PTR ; test if dispatch address is zero
      0035 202 BEQL RET ; if yes, this must be return from
      0037 203 ; user initialization proc. which had
      0037 204 ; done co-routine call-back.
      0037 205 ; There fore this is return from main
      0037 206 ; program, so return to caller (of LIB$INITI
      0037 207 ; caller or initialization procedure)
      0037 208 ; may loop thru here for each init proc whic
      0037 209
      0037 210 ;+
      0037 211 ; Here from co-routine call-back from an initialization routine
      0037 212 ;--
      0037 213
      0037 214 DISPATCH CONT: ; continue dispatching to initialization pro
      0037 215 ADDL #4, DISP_PTR ; step dispatch pointer to next
      003E 216 ; init. proc. address
      003E 217 BRB LOOP ; loop
      0040 218
      0040 219 ;+
      0040 220 ; Here when entire initialization list has been scanned
      0040 221 ; Call main program
      0040 222 ;--
      0040 223
      0040 224 CALL_MAIN: ; here to call main program
      0040 225 ADDL3 #4, SAV_START_ADR, - ; Restore initial argument and step
      0049 226 START_ADR_ADR(AP) ; to next longword in image startup vector.
      0049 227 MOVL @START_ADR_ADR(AP), R0 ; R0 = next start address (main program)
      004D 228 CLRL R1 ; Clear environment pointer
      004F 229 CALLG (AP), (R0) ; call main program or main procedure
      0052 230 RET: RET ; R0 = status returned by main program
```


LIB\$INITIALIZE
1-004

I 16
; Library initialization dispatcher 16-SEP-1984 00:11:03 VAX/VMS Macro V04-00 Page 6
LIB\$INITIALIZE - Library initialization 6-SEP-1984 11:08:09 [LIBRTL.SRC]LIBINITIA.MAR;1 (7)

```
0053 232
0053 233 ;+
0053 234 ; Co-routine - may be called by library or user initialization procedure.
0053 235 ; Set AP to value it had when LIB$INITIALIZE originally called.
0053 236 ; This lets LIB$INITIALIZE re-use the same argument list
0053 237 ; -
0053 238
0053 239 CO_ROUT:
5C 00000008'EF 4000 0053 240 .WORD ^M<IV> ; no registers used.
D9 11 0055 241 MOVL SAV_AP, AP ; restore AP to original arg list
005C 242 ; when LIB$INITIALIZE was called.
005C 243 BRB DISPATCH_CONT ; go continue dispatch loop
005E 244
005E 245 .END ; End of module LIB$INITIALIZE
```

LIB\$INITIALIZE
Symbol table

J 16
; Library initialization dispatcher

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6-SEP-1984 11:08:09

VAX/VMS Macro V04-00
[LIBRTL.SRC]LIBINITIA.MAR;1

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CALL MAIN	00000040	R	06
CO_ROUT	00000053	R	06
DISPATCH_CONT	00000037	R	06
DISP_PTR	00000000	R	05
INIT_TABLE_BEG	00000000	R	01
INIT_TABLE_END	00000000	R	04
LIB\$INITIALIZE	00000000	RG	06
LOOP	00000021	R	06
RET	00000052	R	06
SAV_AP	00000008	R	05
SAV_START_ADR	00000004	R	05
START_ADR_ADR =	00000004		

+-----+
! Psect synopsis !
+-----+

PSECT name	Allocation	PSECT No.	Attributes
. ABS	00000000 (0.)	00 (0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
LIB\$INITIALIZDZ	00000000 (0.)	01 (1.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
LIB\$INITIALIZD-	00000000 (0.)	02 (2.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
LIB\$INITIALIZE-	00000000 (0.)	03 (3.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
LIB\$INITIALIZES	00000004 (4.)	04 (4.)	NOPIC USR CON REL GBL NOSHR NOEXE RD NOWRT NOVEC LONG
_LIB\$DATA	0000000C (12.)	05 (5.)	PIC USR CON REL LCL NOSHR NOEXE RD WRT NOVEC BYTE
_LIB\$CODE_NOSHR	0000005E (94.)	06 (6.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC BYTE

+-----+
! Performance indicators !
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	29	00:00:00.03	00:00:02.66
Command processing	109	00:00:00.30	00:00:03.67
Pass 1	67	00:00:00.35	00:00:02.97
Symbol table sort	0	00:00:00.00	00:00:00.01
Pass 2	59	00:00:00.28	00:00:01.36
Symbol table output	2	00:00:00.02	00:00:00.02
Psect synopsis output	4	00:00:00.01	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	272	00:00:01.00	00:00:10.71

The working set limit was 750 pages.

2647 bytes (6 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 12 non-local and 0 local symbols.

245 source lines were read in Pass 1, producing 20 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

+-----+
! Macro library statistics !
+-----+

Macro library name

Macros defined

_\$255\$DUA28:[SYSLIB]STARLET.MLB;2

0

LIB\$INITIALIZE ; Library initialization dispatcher^{K 16}
VAX-11 Macro Run Statistics

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0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LISS:LIBINITIA/OBJ=OBJ\$:LIBINITIA MSRC\$:LIBINITIA/UPDATE=(ENHS:LIBINITIA)

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VAX/VMS V4.0

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